

CHAPTER 7

REFERENCES

- Alaska Department of Fish and Game. 2007. What Kind of Fishing Boat is That? Available at: http://www.cf.adfg.state.ak.us/geninfo/pubs/fv_n_ak/fv_ak1pg.pdf.
- Alaska Longline Fishermen's Association. 2010. *Comments on Draft Report To Congress: Study of Discharges Incidental to Normal Operation of Commercial Fishing Vessels and Other Non-Recreational Vessels Less than 79*. (Docket ID: EPA-HQ-OW-2009-0828-0008.1.pdf), Washington, DC. Available at: www.regulations.gov.
- Alaska Trollers Association. 2010. *Comments on Draft Report To Congress: Study of Discharges Incidental to Normal Operation of Commercial Fishing Vessels and Other Non-Recreational Vessels Less than 79*. (Docket ID: EPA-HQ-OW-2009-0828-0026.1.pdf), Washington, DC. Available at: www.regulations.gov.
- Albert, R. 2007. *The Influence of Past and Future Urbanization on Watershed Nitrogen Export and hydrology Dynamics in Two Mid-Atlantic Watersheds in Fairfax, VA*. Ph.D. Diss., George Mason Univ.
- Ambio. 2008. Advanced Nanostructured Surfaces for the Control of Biofouling. Available online at: <http://www.ambio.bham.ac.uk/>.
- ATSDR, 2002. *ToxFAQs™ for Di(2-ethylhexyl)phthalate (DEHP)*. Agency for Toxic Substances and Disease Registry, Atlanta, GA. Available at <http://www.atsdr.cdc.gov/tfacts9.pdf>.
- ATSDR. 2007. *Toxicological Profile for Benzene*. Agency for Toxic Substances and Disease Registry. Atlanta, GA. Washington, DC. (August). Available online at: <http://www.atsdr.cdc.gov/toxprofiles/tp3.pdf>.
- Baldwin, D., J. Labenia, B. French and N. Scholz. 2004. *The Impacts of Dissolved Copper on Olfactory Function in Juvenile Coho Salmon*. NOAA Northwest Fisheries Science Center. Available at <http://www.nwfsc.noaa.gov/research/divisions/ec/ecotox/fishneurobiology/copperimpacts.cfm>.
- Basheer, C., K.S. Tan, and H.K. Lee. 2002. Organotin and Irgarol-1051 Contamination in Singapore Coastal Waters. *Mar. Pollut. Bull.* 44(7): 697–703.
- Bay, S. M., D. Lapota, J. Anderson, J. Armstrong, T. Mikel, A. W. Jirik and A. Asato. 2000. *Southern California Bight 1998 Regional Monitoring Program: IV. Sediment Toxicity*. Southern California Coastal Water Research Project. Westminster, CA.
- Bryan, G.W., P.E. Gibbs, G.R. Burt and L.G. Hummerstone. 1986. The Decline of the Gastropod *Nucella lapillus* Around South-west England: Evidence for the Effect of Tributyltin from Antifouling Paints. *J. Mar. Biol. Assoc. UK.* 66: 611-640.
- Casey, D. 2007. *Servicing Your Stuffing Box*. BoatU.S. Available at <http://www.boatus.com/boattech/Casey/StuffingBox.htm>.

- Calabrese, A., J.R. MacInnes, D.A. Nelson, R.A. Greigand, and P.P. Yevich. 1984. Effects of Long-term Exposure to Silver or Copper on Growth, Bioaccumulation and Histopathology in the Blue Mussel *Mytilus edulis*. *Mar. Environ. Res.* 11: 253-274.
- Carberry, K.K. 2006. A Case Study of Irgarol Contamination in Coastal Environments: the Case of Caribbean Waters. Master Thesis. Univ. Puerto Rico, Mayaguez Campus.
- Carson, R.T., M. Damon, L.T. Johnson, and J.A. Gonzalez. 2009. Conceptual Issues in Designing a Policy to Phase Out Metal-based Antifouling Paints on Recreational Boats in San Diego Bay. *J. Environ. Manag.* 90(8): 2460-2468.
- CRWQCB. 2005. *Total Maximum Daily Load for Dissolved Copper in Shelter Island Yacht Basin, San Diego Bay*. Basin Plan Amendment and Technical Report. California Regional Water Quality Control Board, San Diego Region. Resolution No. R9-2005-0019.
- Chambers, L.D., K.R. Stokes, F.C. Walsh, and R.J.K. Wood. 2006. Modern Approaches to Marine Antifouling Coatings. *Surf. Coat. Technol.* 201(6): 3642-3652.
- Chin, M. 2005. Packing Glands. BCC Maintenance Tips: Sam L. Morse Company. Available at <http://www.samlmorse.com/forum/read.php?3,808>.
- Conway, J.B. and L.P. Locke. 1994. *A Final Report on Marine Fouling and In-water Hull Cleaning in San Diego Bay*. Prepared for the California Regional Water Quality Control Board, San Diego Region.
- Cummins, Inc. 2004. *Marine Generator Set, Operator Manual for Models MDDCA-MDDCJ*. Available at <http://www.cumminsonan.com/www/pdf/manuals/981-0172.pdf>.
- Cummins, Inc. 2008. *Marine Generator Set, Operator Manual for Models MDKBK-MDKBU*. Available at <http://www.cumminsonan.com/www/pdf/manuals/981-0181.pdf>.
- Davis A., M. Shokouhian, and S. Ni. 2001. Loading Estimates of Lead, Copper, Cadmium and Zinc in Urban Runoff from Specific Sources. *Chemosphere.* 44: 997-1009.
- DiGangi, J., T. Schettler, M. Cobbing and M. Rossi. 2002. *Aggregate Exposures to Phthalate in Humans. Health Care Without Harm*. Available at http://www.ecocenter.org/dust/Phthalate_hcwh.pdf.
- Evans, S.M., S.T. Hawkins, J. Porter and A.M. Samosir. 1994. Recovery of Dogwhelk Populations on the Isle of Cumbrae, Scotland following Legislation Limiting the Use of TBT as an Antifoulant. *Mar. Poll. Bull.* 28: 15-17.
- Francesconi, K.A. and D. Kuehnelt. 2002. Arsenic Compounds in the Environment. In: W.T. Frankenberger, Jr. (Ed.), *Environmental Chemistry of Arsenic*, Marcel Dekker, Inc. NY. pp. 51-94.
- Hall, L. and P. Gardinali. 2004. Ecological Risk Assessment for Irgarol 1051 and its Major Metabolite in United States Surface Waters. *Hum. Ecol. Risk Assess.* 10(3): 525-542.
- Hall, L.W., W.D. Killen, R.D. Anderson, Gardinali, P.R. and R. Balcomb. 2005. Monitoring of Irgarol 1051 Concentrations with Concurrent Phytoplankton Evaluations in East Coast Areas of the United States. *Mar. Pollut. Bull.* 50: 668-681.

- Hyndman, R.J. and Y. Fan. 1996. Sample Quantiles in Statistical Packages. *Amer. Stat.* 50(4) 361-365.
- Interlux. 1999. Boat Painting Guide for Protecting and Maintaining Your Boat.
- Johnson, H.D., J.G. Grovhoug, and A.O. Valkirs. 1998. *Copper Loading to U.S. Navy Harbors: Norfolk, VA; Pearl Harbor, HI; and San Diego, CA*. Technical Document 3052. Space and Naval Systems Center. Systems Center (SPAWAR), U.S. Navy, San Diego, CA.
- Johnson, L.T. and J.A. Miller. 2002. *What You Need to Know about Nontoxic Antifouling Strategies for Boats*. California Sea Grant College Program, Report No. T-049. University of California San Diego, San Diego, CA.
- Johnson, L.T. and J.A. Gonzalez. 2006. *Environmental Policy Conflicts on the Horizon: Vessel Antifouling Paints, Coastal Water Quality, and Invasive Species*. California Policy Research Center, University of California.
- Koetter Fire Protection Systems. 2008. Available online at: www.koetterfire.com/engineered-fire-systems.php, 2008.
- Konstantinou, I. K. and T.A. Albanis. 2004. Worldwide Occurrence and Effects of Antifouling Paint Booster Biocides in the Aquatic Environment: A Review. *Environ. Int.* 30: 235-248.
- MA DEP. 2006. *South Shore Coastal Watersheds 2001 Water Quality Assessment Report*. Report Number 94-AC-2. Massachusetts Department of Environmental Protection.
- MARPOL 73/78. 1978. International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. Available at http://www.imo.org/Conventions/mainframe.asp?topic_id=258&doc_id=678.
- McPherson, T.N. and G.B. Peters. 1995. *The Effects of Copper-Based Antifouling Paints on Water Quality in Recreational Boat Marinas in San Diego and Mission Bays. Inwater Hull Cleaning Study, Ambient Concentrations Study, and Tidal Influence Study*. California Regional Water Quality Control Board, San Diego Region. San Diego, CA.
- Metcalf and Eddy, Inc. 1979. *Wastewater Engineering*. Boston, MA.
- Mohr, S., R. Berghahn, W. Mailahn, R. Schmiediche, M. Feibicke, and R. Schmidt. 2009. Toxic and Accumulative Potential of the Antifouling Biocide and TBT Successor Irgarol on Freshwater Macrophytes: A Pond Mesocosm Study. *Environ. Scr. Technol.* (In Press).
- Mohr, S., H. Schroder, M. Feibicke, R. Berghahn, W. Arp and A. Nicklisch. 2008. Long-term Effects of the Antifouling Booster Biocide Irgarol 1051 on Periphyton, Plankton and Ecosystem Function in Freshwater Pond Mesocosms. *Aquat. Toxicol.* 90: 109-120.
- Mowka, E.J., Jr. 2009. *The SeaWater Manual: Fundamentals of Water Chemistry for Marine Aquarists*. Instant Ocean. Available online at: <http://www.instantocean.com/downloads/basicsofsaltwater/basicsofsaltwater.pdf>.
- National Marine Fisheries Service (NMFS). 2009. *Fisheries of the United States 2008*. NMFS Fisheries Statistics Division, Silver Springs, MD.

- NOAA. 1991. *Contaminant Trends in the Southern California Bight: Inventory and Assessment*. NOAA Technical Memorandum, NOS ORCA 62, National Oceanic and Atmospheric Administration, National Ocean Service, Rockville, MD.
- NOAA. 1994. *Inventory of Chemical Concentrations in Coastal and Estuarine Sediments*. NOAA Technical Memorandum, NOS ORCA 76, National Oceanic and Atmospheric Administration, National Ocean Service, Silver Springs, MD.
- NMMA. 2009. *2005 U.S. Recreational Boat Registration Statistics*. National Marine Manufacturers Association.
- PRC Environmental Management, Inc. 1997. *Report of Copper Loading to San Diego Bay, California*. Prepared for California Regional Water Quality Control Board, San Diego Region and the San Diego Bay Interagency Water Quality Panel.
- Readman JW. 2006. *Development, Occurrence and Regulation of Antifouling Paint Biocides: Historical Review and Future Trends*. In: I.K. Konstantinou (Ed.) *The Handbook of Environmental Chemistry: Antifouling Paint Biocides. Vol. 5: Water Pollution*.
- Research Systems Inc. 2003. Interactive Data Language (IDL), Version 6.0. Boulder, CO.
- Rivera-Duarte, I., G. Rosen, D.B. Chadwick, L. Kear-Padilla, and A. Zirino. 2003. *Speciation and Bioavailability of Copper in San Diego Bay; Free Copper Ion Concentration as Main Vector to Study the Effect of Copper Leaching from Antifouling Paints*. Presented at: International Symposium on Prevention of Pollution from Ships and Shipyards, New Orleans, LA, November 5-7, 2003.
- Schiff, K., D. Diehl, and A. Valkirs. 2003. Copper Emissions from Antifouling Paint on Recreational Vessels. *Mar. Poll. Bull.* 48(2004): 371–377.
- Sekizawa, J., S. Dobson, and R.J. Touch III. 2003. *Diethyl Phthalate*. Concise International Chemical Assessment Document 52. World Health Organization.
- Sherwood Pumps, Marine Engine Cooling Water Pumps. 2009. *Flow Performance*. (<http://www.sherwoodpumps.com/en-us/Products/Engine+OEM+Solutions/Flow+Performance/>)
- Singhasemanon, N. 2008. *Assessment of Antifouling Paint Use Indicators in California Marinas*. CA Department of Pesticide Regulation. Presented at: CAHMPC Annual Conference, Ventura, CA.
- Singhasemanon, N., E. Pyatt, and J. Bacey. 2009. *Monitoring for Indicators of Antifouling Paint Pollution in California Marinas*. EH08-05. California Environmental Protection Agency, Environmental Monitoring Branch, California Department of Pesticide Regulation, Sacramento, CA.
- SPSS. 1996. SYSTAT, Version 6.1. Chicago, IL.
- SWRCB. 1996. *Chemistry, Toxicity and Benthic Community Conditions in Sediments of the San Diego Bay Region*. Final Report. September 1996. State Water Resources Control Board, National Oceanic and Atmospheric Administration, California Department of Fish and Game Marine Pollution Studies Laboratory, University of Santa Cruz, and Moss Landing Marine Laboratories.

- Ten Hallers-Tjabbes, C.C., J.F. Kemp, and J.P. Boon. 1994. Imposex in Whelks (*Buccinum undatum*) from the Open North Sea: Relation to Shipping Traffic Intensities. *Mar. Pollut. Bull.* 28: 311-313.
- TDC Environmental. 2004. *Copper Sources in Urban Runoff and Shoreline Activities; Information Update*. Prepared for the Clean Estuary Partnership.
- Thomas, K., K. Raymond, J. Chadwick, and M. Waldock. 1999. The Effects of Short-term Changes in Environmental Parameters on the Release of Biocides from Antifouling Coatings: Cuprous Oxide and Tributyltin. *Appl. Organomet. Chem.* 13: 453-460.
- Thomas, K.V., T.W. Fileman, J.W. Readman, and M.J. Waldock. 2001. Antifouling Paint Booster Biocides in the UK Coastal Environment and Potential Risks of Biological Effects. *Mar. Pollut. Bull.* 42(8): 677-688.
- Thomas, K.V., M. McHugh, and M. Waldock. 2002. Antifouling Paint Booster Biocides in UK Coastal Waters: Inputs, Occurrence and Environmental Fate. *Sci. Total Environ.* 293: 117-127.
- United Fishermen of Alaska. 2010. *Comments on Draft Report To Congress: Study of Discharges Incidental to Normal Operation of Commercial Fishing Vessels and Other Non-Recreational Vessels Less than 79*. (Docket ID: EPA-HQ-OW-2009-0828-0025.1.pdf), Washington, DC. Available at: www.regulations.gov.
- USCG. 2009. *Marine Information for Safety and Law Enforcement (MISLE) Database*. U.S. Coast Guard. Washington, D.C.
- USEPA. 1976. *Quality Criteria for Water. "Red Book."* EPA PB-263-943. U.S. Environmental Protection Agency. Washington, D.C. Available at <http://www.epa.gov/waterscience/criteria/library/redbook.pdf>.
- USEPA. 1986a. *Ambient Water Quality Criteria for Bacteria -1986*. EPA-440/5-84-002. U.S. Environmental Protection Agency. Washington, D.C. (January). Available at <http://www.epa.gov/waterscience/beaches/files/1986crit.pdf>.
- USEPA. 1986b. *Quality Criteria for Water-1986. "Gold Book."* EPA 440/5-86-001. U.S. Environmental Protection Agency. Washington, D.C. (May). Available at <http://www.epa.gov/waterscience/criteria/library/goldbook.pdf>.
- USEPA. 1991. *Technical Support Document for Water Quality-Based Toxics Control*. EPA/505/2-90-001. U.S. Environmental Protection Agency. Washington, D.C.
- USEPA. 1993. *Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters. Chapter 5: Management Measure for Marinas and Recreational Boating*. EPA-840-B-93-001c. U.S. Environmental Protection Agency. Washington, D.C.
- USEPA. 1996. *The Metals Translator: Guidance for Calculating a Total Recoverable Permit Limit from a Dissolved Criterion*. EPA 823-B-96-007. U.S. Environmental Protection Agency. Washington, D.C.

- USEPA. 1997. *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments - Interim Final*. EPA 540-R-97-006. U.S. Environmental Protection Agency. Washington, D.C. Available at <http://www.epa.gov/oswer/riskassessment/ecorisk/ecorisk.htm>.
- USEPA. 1999. *Uniform National Discharge Standards for Vessels of the Armed Forces – Phase I Technical Development Document*. EPA 821-R-99-001. U.S. Environmental Protection Agency. Washington, D.C. Available online at: <http://unds.bah.com/TDD.pdf>.
- USEPA. 2001. *Nutrient Criteria Technical Manual, Coastal and Marine Waters, October, 2001*. Chapter 9. U.S. Environmental Protection Agency. Washington, D.C.
- USEPA. 2002. *Total Maximum Daily Loads for Toxic Pollutants, San Diego Creek and Newport Bay, California*. U.S. EPA Region IX. San Francisco, CA.
- USEPA. 2003a. *Irgarol: Updated Environmental Risk Assessment for Antifoulant Use*. Memorandum from K. Montague and R. Petrie to D. Edwards through N. Cook, July 15, 2003. Office of Pesticide Programs, Antimicrobial Division, U.S. Environmental Protection Agency. Washington, D.C.
- USEPA. 2003b. *Technical Summary of Information Available on the Bioaccumulation of Arsenic in Aquatic Organisms*. EPA-822-R-03-032. U.S. Environmental Protection Agency. Washington, D.C. (December).
- USEPA. 2006. *National Recommended Water Quality Criteria*. U.S. Environmental Protection Agency. Washington, D.C. Available online at: <http://www.epa.gov/waterscience/criteria/wqctable/index.html>.
- USEPA. 2007. *Aquatic Life Ambient Freshwater Quality Criteria – Copper; 2007 Revision*. EPA-882-R-07-001. U.S. Environmental Protection Agency. Washington, D.C. (February).
- USEPA. 2008a. *Economic Impact Analysis of the Recreational Vessel Permit*. U.S. Environmental Protection Agency. Washington, D.C. (June).
- USEPA. 2008b. *Final Sampling Episode Report for Small Boat Engine Wet Exhaust Discharge from Compression Ignition Engines*. U.S. Environmental Protection Agency. Washington, D.C. (August).
- USEPA. 2008c. *Cruise Ship Discharge Assessment Report*. EPA842-R-07-005. U.S. Environmental Protection Agency. Washington D.C. (December). Available online at: http://www.epa.gov/owow/oceans/cruise_ships/cruise_ship_disch_assess_report.html
- USEPA. 2008d. *Final Issuance of NPDES Vessel General Permit for Discharges Incidental to the Normal Operation of Vessels Fact Sheet (December)*. Available at www.epa.gov/npdes/pubs/vessel_vgp_factsheet.pdf.
- USEPA. 2009. *WaterSense Water-Saving Showerheads Fact Sheet*. United States Environmental Protection Agency, Washington, DC. Available at http://www.epa.gov/watersense/docs/showerhead_factsheet508.pdf.

- Valkirs, A.O., B.M. Davidson, L.L. Kear, R.L. Fransham, A.R. Zirino, and J.G. Grovhoug. 1994. *Environmental Effects from In-Water Hull Cleaning of Ablative Copper Antifouling Coatings*. Technical Document 2662. Naval Command, Control and Ocean Surveillance Center, RDT&E Division, San Diego, CA.
- Valkirs, A.O., P.F. Seligman, E. Haslbeck, and J.S. Caso. 2003. Measurement of Copper Release Rates from Antifouling Paint under Laboratory and In-situ Conditions: Implications for Loading Estimation to Marine Water Bodies. *Mar. Pollut. Bull.* 46: 763-779.
- West Marine. 2008. *Selecting Antifouling Paint*. Available at <http://www.westmarine.com/webapp/wcs/stores/servlet/westadvisor/10001/-1/10001/Anti-fouling-Paint.htm>.
- WHOI. 1952. *Marine Fouling and its Prevention*. Contribution No. 580. Woods Hole Oceanographic Institution. United States Naval Institute, Annapolis, MD.
- Yebra, D.M., S. Kiil, and K. Dam-Johansen. 2004. Antifouling Technology – Past, Present and Future Steps towards Efficient and Environmentally Friendly Antifouling Coatings. *Prog. Org. Coat.* 50: 75-104.
- Zirino, A. and P.F. Seligman. 2002. *Copper Chemistry, Toxicity and Bioavailability and its Relationship to Regulation in the Marine Environment*. Technical Document 3140. Space and Naval Warfare Systems Center, San Diego, CA.